

Title (en)

Single-phase induction motor with starting device.

Title (de)

Einphaseninduktionsmotor mit Anlaufeinrichtung.

Title (fr)

Moteur monophasé à induction avec dispositif de démarrage.

Publication

EP 0555700 A1 19930818 (DE)

Application

EP 93101295 A 19930128

Priority

- DE 4204323 A 19920214
- DE 4215263 A 19920509

Abstract (en)

[origin: JPH05284699A] PURPOSE: To provide a single-phase induction motor equipped with a starter which can be composed of inexpensive parts, without using an expensive starting capacitor. CONSTITUTION: A series circuit of an auxiliary coil 2 and an operation capacitor 3 is connected in parallel with the main stator coil 1 of a motor. Furthermore, a series circuit of a diode 4 and a centrifugal switch 5 is connected in parallel with the operation capacitor 3. The centrifugal switch 5 is closed at the start of the operation. Hereby, alternative voltage temporarily changing not so as to become zero in the average value of one cycle is imposed to the main stator coil of a motor, and starting moment is generated. When the motor reaches the scheduled rotational speed, the centrifugal switch 5 is opened. An inexpensive diode 4 substitutes for a conventional expensive starting capacitor.

Abstract (de)

Der Einphaseninduktionsmotor weist eine Anlaufeinrichtung auf, die während der Anlaufphase des Motors aktiviert wird und mindestens einen Teil der Motorwicklung (2) mit einer sich zeitlich ändernden Spannung beaufschlagt, deren während einer Schwingungsperiode gebildeter Mittelwert ungleich Null ist. <IMAGE>

IPC 1-7

H02K 17/08; **H02P 1/44**

IPC 8 full level

H02K 17/08 (2006.01); **F04D 13/06** (2006.01); **H02K 17/30** (2006.01); **H02P 1/42** (2006.01); **H02P 1/44** (2006.01)

CPC (source: EP KR US)

F04D 13/06 (2013.01 - EP US); **H02K 17/04** (2013.01 - KR); **H02P 1/44** (2013.01 - EP US)

Citation (search report)

- [X] FR 1494109 A 19670908 - UNELEC
- [Y] DE 3440923 A1 19850530 - GRUNDFOS AS [DK]
- [X] GB 738159 A 19551012 - GEN ELECTRIC CO LTD, et al
- [A] DE 1289912 B 19690227 - ACEC [BE]

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

DE 4215263 C1 19930429; EP 0555700 A1 19930818; JP H05284699 A 19931029; KR 930018817 A 19930922; US 5598080 A 19970128

DOCDB simple family (application)

DE 4215263 A 19920509; EP 93101295 A 19930128; JP 2277993 A 19930210; KR 930001822 A 19930210; US 1721193 A 19930212